

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference  KAP-05821-WO	<b>FOR FURTHER ACTION</b> see Form PCT/ISA/220 as well as, where applicable, item 5 below.	
International application No.  PCT/EP2005/050986	International filing date (day/month/year)  04/03/2005	(Earliest) Priority Date (day/month/year)  04/03/2004
Applicant  LEICA GEOSYSTEMS AG		

This International Search Report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This International Search Report consists of a total of 4 sheets.

It is also accompanied by a copy of each prior art document cited in this report.

1. Basis of the report

a. With regard to the **language**, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.

The international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).

b.  With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, see Box No. I.

2.  **Certain claims were found unsearchable** (See Box II).

3.  **Unity of invention is lacking** (see Box III).

4. With regard to the **title**,

the text is approved as submitted by the applicant.

the text has been established by this Authority to read as follows:

5. With regard to the **abstract**,

the text is approved as submitted by the applicant.

the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box No. IV. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. With regard to the **drawings**,

a. the figure of the **drawings** to be published with the abstract is Figure No. 6

as suggested by the applicant.

as selected by this Authority, because the applicant failed to suggest a figure.

as selected by this Authority, because this figure better characterizes the invention.

b.  none of the figures is to be published with the abstract.

**INTERNATIONAL SEARCH REPORT**

International application no.

PCT/EP2005/050986

**Box No. IV Text of the abstract (Continuation of item 5 of the first sheet)**

A method of controlling wireless messaging between mobile apparatuses and an on-site office in a worksite comprises the steps of: dividing the worksite area into elementary cells (C) mapped in correspondence with the topology of the area and into communication zones (CZ), for a given communication zone of the worksite, establishing at least one updatable communication attribute value pertaining to a parameter of wireless communication to or from the given communication zone, for a given elementary cell, establishing at least one worksite management attribute value of the worksite at that cell, storing, in an electronic memory (20), values of the worksite and communication attributes, each stored attribute value being electronically indexed to the elementary cell, or to the communication zone, for which it was determined, forming a worksite management message with an electronically readable content containing at least one worksite management attribute value, accessing the memory to obtain at least one current communication attribute value in respect of a communication zone to or from which the formed management message is to be communicated by a wireless communication, and establishing a wireless communication to or from the communication zone to send or receive the management message on the basis of the current communication attribute value(s) electronically accessed from the memory.

A. CLASSIFICATION OF SUBJECT MATTER  
 IPC 7 G05D1/02 E02F3/84 G08G1/123

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)  
 IPC 7 G05D E02F G08G

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 5 850 341 A (KLEIMENHAGEN KARL W ET AL) 15 December 1998 (1998-12-15) cited in the application column 1, line 6 - column 4, line 42 column 5, line 16 - column 8, line 24 column 11, line 10 - column 11, line 40; figures 1,2,5 ----- US 6 611 755 B1 (COFFEE JOHN R ET AL) 26 August 2003 (2003-08-26) column 1, line 6 - column 6, line 67 column 8, line 43 - column 10, line 17 column 20, line 53 - column 21, line 30 column 72, line 25 - column 74, line 47; figure 1 ----- -/-	1-50
Y		1-50

Further documents are listed in the continuation of box C.

Patent family members are listed in annex.

\* Special categories of cited documents :

- \*A\* document defining the general state of the art which is not considered to be of particular relevance
- \*E\* earlier document but published on or after the international filing date
- \*L\* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- \*O\* document referring to an oral disclosure, use, exhibition or other means
- \*P\* document published prior to the international filing date but later than the priority date claimed

- \*T\* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- \*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- \*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- \*&\* document member of the same patent family

Date of the actual completion of the international search

31 May 2005

Date of mailing of the international search report

08/06/2005

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## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 6 084 870 A (WOOTEN ET AL) 4 July 2000 (2000-07-04) column 1, line 9 - column 4, line 39 column 4, line 63 - column 7, line 50 column 15, line 29 - column 15, line 47; figure 1 -----	1-50
A	YAKOH T ET AL: "MACS: An efficient multicast mechanism for radiopacket communication among multiple mobile robots" COMMUNICATIONS, COMPUTERS AND SIGNAL PROCESSING, 1993., IEEE PACIFIC RIM CONFERENCE ON VICTORIA, BC, CANADA 19-21 MAY 1993, NEW YORK, NY, USA, IEEE, vol. 2, 19 May 1993 (1993-05-19), pages 561-564, XP010141735 ISBN: 0-7803-0971-5 the whole document -----	1-50
A	US 4 414 661 A (KARLSTROM ET AL) 8 November 1983 (1983-11-08) the whole document -----	1-50

## Information on patent family members

PCT/EP2005/050986

Patent document cited in search report		Publication date		Patent family member(s)	Publication date
US 5850341	A	15-12-1998	CA WO ZA	2188021 A1 9530880 A1 9502638 A	16-11-1995 16-11-1995 16-02-1996
US 6611755	B1	26-08-2003	AU EP WO US	2906501 A 1410364 A2 0146710 A2 2004039504 A1	03-07-2001 21-04-2004 28-06-2001 26-02-2004
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